

Notice of Allowability	Application No.	Applicant(s)	
	09/974,656	LEE ET AL.	
	Examiner	Art Unit	
	Nguyen Ngo	2663	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment of January 24, 2006.
2. ☒ The allowed claim(s) is/are 1-8 and 15-37.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|---|--|

DETAILED ACTION

Response to Amendment

This communication is in response to the amendment of 1/24/2006. All changes made to the Specification, and Claims have been entered. Accordingly, Claims 1-37 are currently pending in the application.

Allowable Subject Matter

1. Claims 1-8 and 15-37 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

2. Claims 1 is are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose encoding TFCI bits depending on information bits of the first channel and information bits of a second channel established to transmit the packet data over first channel, and transmitting the encoded TFCI bits over the second channel and a first and second TFCI bit generator for creating first and second TFCI bits depending on information bits of the first and second channel and puncturing the encoded first TFCI bits and second TFCI bits according to puncturing positions. It is noted that the closest prior art, Kim et al. (US 6882636) discloses an apparatus for encoding/decoding a TFCI in a CDMA mobile communication system. However, Kim et al. fails to disclose or render obvious to the above underline limitations as claimed.

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3. Claims 7 is are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose encoding TFCI bits depending on information bits of the first channel and information bits of a second channel established to transmit the packet data over first channel, and transmitting the encoded TFCI bits over the second channel and a TFCI bit generator for creating the TFCI bits, the number of which is variable depending on an information bit ratio of the first channel to the second channel and a puncturer for puncturing a codeword output from the adder according to the code length information. It is noted that the closest prior art, Kim et al. (US 6882636) discloses an apparatus for encoding/decoding a TFCI in a CDMA mobile communication system. However, Kim et al. fails to disclose or render obvious to the above underline limitations as claimed.

4. Claims 15 is are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose encoding TFCI bits for the first channel into first TFCI symbols and TFCI bits for the second channel established to transmit control information for the first channel into second TFCI symbols, and transmitting the first and second TFCI symbols over the second channel, and a decoder for inserting zeros in the first TFCI symbols and the second TFCI symbols at first and second predetermined positions respectively, and decoding the zero-inserted first and second TFCI symbols by using inverse fast Hadamard transform (IFHT). It is noted that the closest prior art, Kim et al. (US

6882636) discloses an apparatus for encoding/decoding a TFCI in a CDMA mobile communication system. However, Kim et al. fails to disclose or render obvious to the above underline limitations as claimed.

5. Claims 21 is are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose transmitting packet data over a first channel, first and second encoded TFCI bits over a second channel established to transmit control data for the first channel and encoding a first TFCI bits representing a transport format combination of the first channel to generate first encoded symbols and a second TFCI bits representing a transport format combination of the second channel to generate second encoded symbols respectively and puncturing the first encoded symbols and the second encoded symbols. It is noted that the closest prior art, Kim et al. (US 6882636) discloses a method for encoding/decoding a TFCI in a CDMA mobile communication system. However, Kim et al. fails to disclose or render obvious to the above underline limitations as claimed.

6. Claims 27 is are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose transmitting packet data over a first channel, first and second encoded TFI bits over a second channel established to transmit control data for the first channel and inserting zeros in the first encoded TFCI bits and second encoded TFCI bits at first and

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second predetermined positions respectively and decoding the zero-inserted first and second TFCI bits. It is noted that the closest prior art, Kim et al. (US 6882636) discloses a method for encoding/decoding a TFCI in a CDMA mobile communication system. However, Kim et al. fails to disclose or render obvious to the above underline limitations as claimed.

7. Claims 33 is are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose **encoding TFCI bits for a first channel and TFCI bits for a second channel depending on an information bits ratio of the first channel to the second channel first channel TFCI and the second channel TFCI and creating m first TFCI bits based on data of the first channel and n second TFCI bits based on data of the second channel and encoding the TFCI bits and puncturing the encoded symbols according to puncturing positions (first and second respectively).** It is noted that the closest prior art, Kim et al. (US 6882636) discloses a method for encoding/decoding a TFCI in a CDMA mobile communication system. However, Kim et al. fails to disclose or render obvious to the above underline limitations as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Ngo whose telephone number is (571) 272-8398. The examiner can normally be reached on Monday-Friday 7am - 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

N.N

Nguyen Ngo

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RICKY Q. NGO
SUPERVISORY PATENT EXAMINER